



SEQUENCE LISTING

<110> Karas, Michael

<120> Intracellular Delivery of Small Molecules, Proteins, and Nucleic Acids

<130> 002877.00028

<140> 10/790,768

<141> 2004-03-03

<160> 25

<170> PatentIn version 3.1

<210> 1

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<400> 1

Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
1 5 10

<210> 2

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<400> 2

Lys Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
1 5 10 15

<210> 3

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> nuclear localization signal

<400> 3

Lys Lys Lys Arg Lys Val
1 5

<210> 4

<211> 21

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> protein transduction domain

 <400> 4

 Lys Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg Lys
 1 5 10 15

Lys Lys Arg Lys Val
 20

<210> 5
 <211> 27
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> protein transduction domain

 <400> 5

 Lys Gly Gly Lys Lys Lys Arg Lys Val Arg Lys Met Leu Lys Ser Thr
 1 5 10 15

Arg Arg Gln Arg Arg Lys Lys Lys Arg Lys Val
 20 25

<210> 6
 <211> 14
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> negative control peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> Biotin

<400> 6

 Gly Gly Ala Arg Pro Leu Glu His Gly Ser Asp Lys Ala Thr
 1 5 10

<210> 7
 <211> 14
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 7

Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 8

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (14)..(14)

<223> Biotin

<400> 8

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Gly Lys
1 5 10

<210> 9

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 9

Gly Gly Gly Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
1 5 10

<210> 10

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (14)..(14)

<223> Biotin

<400> 10

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala Gly Gly Lys
1 5 10

<210> 11

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Biotin

<400> 11

Arg Arg Gln Arg Arg Thr Ser Lys Leu Met Lys Arg Gly Gly Lys
1 5 10 15

<210> 12

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 12

Gly Gly Gly Arg Arg Gln Arg Arg Thr Ser Lys Leu Met Lys Arg
1 5 10 15

<210> 13

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 13

Lys Gly Gly Arg Arg Arg Gln Arg Arg Lys Lys Arg Gly Tyr
1 5 10

<210> 14

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 14

Lys Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
1 5 10 15

<210> 15

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 15

Gly Gly Gly Arg Arg Arg Gln Arg Arg Lys Lys Arg Gly Tyr
1 5 10

<210> 16

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 16

Gly Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg
1 5 10 15

<210> 17

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 17

Lys Gly Gly Arg Arg Gln Arg Arg Thr Ser Lys Leu Met Lys Arg
1 5 10 15

<210> 18

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 18

Lys Gly Gly Lys Lys Lys Arg Lys Val Met Leu Lys Ser Thr Arg Arg
1 5 10 15

Gln Arg Arg

<210> 19

<211> 21

<212> PRT
<213> Artificial Sequence

<220>
<223> protein transduction domain

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Biotin

<400> 19

Lys Gly Gly Arg Lys Met Leu Lys Ser Thr Arg Arg Gln Arg Arg Lys
1 5 10 15

Lys Lys Arg Lys Val
20

<210> 20
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> protein transduction domain

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Biotin

<400> 20

Lys Lys Lys Arg Lys Val Lys Gly Gly Arg Lys Met Leu Lys Ser Thr
1 5 10 15

Arg Arg Gln Arg Arg
20

<210> 21
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> protein transduction domain

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Biotin

<400> 21

Lys Gly Gly Lys Lys Lys Arg Lys Val Met Leu Lys Ser Thr Arg Arg
1 5 10 15

Gln Arg Arg Lys Lys Lys Arg Lys Val
20 25

<210> 22

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> protein transduction domain

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Biotin

<400> 22

Lys Lys Lys Arg Lys Val Lys Gly Gly Lys Lys Lys Arg Lys Val Met
1 5 10 15

Leu Lys Ser Thr Arg Arg Gln Arg Arg
20 25

<210> 23

<211> 11

<212> PRT

<213> Human immunodeficiency virus

<400> 23

Arg Arg Arg Gln Arg Arg Lys Lys Arg Gly Tyr
1 5 10

<210> 24

<211> 11

<212> PRT

<213> Human immunodeficiency virus

<400> 24

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 25

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> internalizing peptide

<400> 25

Arg Arg Gln Arg Arg Thr Ser Lys Leu Met Lys Arg
1 5 10